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New global temperature analyses

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The Met Office, as the United Kingdom's representative to the World Meteorological Organization (WMO), has proposed a programme to deliver a new global temperature data set.

This initiative will augment, not replace, the current temperature data sets and involve work across the international meteorological community. The proposed data set will provide information on changing extremes and regional variability, and so strengthen decisions on adapting to climate change.

This will require surface temperature data sets with more detail than the current monthly averaged temperatures. Data will be available at daily, or even finer timescales, using methods that are fully peer reviewed and open to scrutiny — providing independent assessments of surface temperature.

The new analysis will add to, and refine, the existing data sets which all show global and continental-scale multi-decadal trends of increasing temperatures, following on from the pioneering work of the University of East Anglia (UEA) over the last 30 years.

Contact information

Met Office Press Office: **+44 (0)1392 886655**

E-mail: Press Office

Met Office Customer Centre: **0870 900 0100**

If you're outside the UK: **+44 1392 885680**